

## Delta RMP Steering Committee Meeting

June 4, 2013

9:00 AM – 12:00 PM



Central Valley Regional Water Board




Training Room

11020 Sun Center Drive #200, Rancho Cordova, CA 95670-6114

Call-In Number and Web-Ex Information to Follow

### Draft Agenda

1.	<b>Introduce the meeting</b> Manage expectations: review the agenda and expected outcomes		<b>9:00</b> <b>Brock Bernstein</b>
2.	<b>Approve Agenda and Minutes (Attachment)</b> Review and agree on agenda and action items and approve meeting minutes	 Draft Summary 30Apr2013.doc	<b>9:05</b> <b>Brock Bernstein</b>
3.	<b>Information Update</b> <ol style="list-style-type: none"> <li>Summary of the outcomes from the Delta RMP update at the May 7<sup>th</sup> State Board meeting.</li> <li>Feedback from Delta Conservancy outreach meetings in Courtland and Stockton</li> </ol>		<b>9:10</b> <b>Meghan Sullivan</b> <b>Ken Landau</b>
4.	<b>Selection of TAC chair</b> A decision is thought on the chair and co-chair for the TAC, based on nominations submitted by SC members	Information provided to Steering Committee	<b>9:20</b> <b>Brock Bernstein</b>
5.	<b>Action: Finalize SC Materials</b> Based on input from the last meeting, several materials have been distributed for	 draft guiding principles.doc	<b>10:20</b> <b>Thomas Jabusch</b>

	review by email and are pending final approval: A. Guiding principles B. Template for RMP priorities review	 contaminant profile template.doc	
6.	<b>Action: Next Steps for RMP priorities review</b> <u>Expected outcome:</u> agree on process, next steps, and timeline for TAC white papers.	 Initial Assessment Selection.doc	<b>10:50</b> <b>Brock Bernstein</b> <b>Thomas Jabusch</b>
7.	<b>Action: Delta RMP development schedule</b> We will review the process timeline in relation to the existing ASC contract. <u>Expected outcome:</u> plan out SC meetings and timeline for critical decisions and define decision basis and information needs for each.	 Delta RMP Timeline 050713.pdf	<b>11:10</b> <b>Meghan Sullivan</b> <b>Brock Bernstein</b> <b>Thomas Jabusch</b>
8.	<b>Plus/Delta, find date for July SC meeting (June 4<sup>th</sup>), set subsequent meeting dates and agenda topics</b>		<b>11:50</b> <b>Brock Bernstein</b>
9.	<b>Adjourn</b>		<b>12:00</b>

## **Delta RMP Steering Committee Meeting**

**April 30, 2013**

**9:00 AM – 12:00 PM**

**Sacramento Regional County Sanitation District Building**

**Sunset Maple Room**

**10060 Goethe Road, Sacramento, CA 95827**

### **Draft Summary**

#### **Attendees:**

*Voting Steering Committee (and/or Alternate) members present<sup>1</sup>:*

Dave Tamayo, Stormwater, Phase I Communities (Sacramento Stormwater Quality Partnership)

Gregg Erickson, Coordinated Monitoring (IEP/CDFW)

Kenneth Landau, Regulatory – State (Central Valley Regional Water Board)

Mike Wackman, Agriculture (San Joaquin County and Delta Water Quality Coalition)

Tim Vendlinski, Regulatory – Federal (U.S. EPA)

Erich Delmas, Alternate-POTWs (City of Tracy)

Casey Wichert, Alternate-POTWs (City of Brentwood)

Linda Dorn, POTWs (SRCSD)

*On phone:*

Stephanie Reyna-Hiestand, Stormwater, Phase II Communities (City of Tracy)

Stephanie Fong, Alternate-Water Supply (SFCWA)

Val Connor, Water Supply (SFCWA)

*Others present:*

Brock Bernstein, Facilitator

Thomas Jabusch, ASC

Vyomini Pandya, SRCSD

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<sup>1</sup> Name, Representation (Affiliation)

Stephen McCord, MEI

Brian Laurenson, LWA

Rainer Hoenicke, DSP

Meghan Sullivan, Central Valley Regional Water Board

Stephen Clark, Pacific Ecorisk

Bruce Houdesheldt, SVWQC

Karen Ashby, LWA

Rachel Kubiak, Western Plant Health

Tom Grovhoug, LWA

Timothy Mussen, SRCSD



Patrick Morris, Central Valley Regional Water Board

*On phone:*

Debbie Webster, CVCWA

Brian Exberger, Veolia Water – City of Rio Vista

1.	<b>Introductions</b> Brock Bernstein reviewed the agenda and expected outcomes. Linda Dorn requested to add to the information update a clarification about Regional Board outreach activities in the Delta.
2.	<b>Approval of agenda and minutes</b> The agenda and April 30, 2013, meeting minutes were approved.
3.	<b>Information update</b> <ol style="list-style-type: none"> <li>1. <u>Delta RMP outreach (Meghan Sullivan):</u> A) The Central Valley Regional Board will be one of the agencies participating in Delta water quality outreach meetings planned by the Delta Conservancy on May 14 in Stockton and May 16 in Courtland. The Regional Board will be manning a table to discuss monitoring with local residents. At this point, Ken Landau is planning to represent the Regional Board at these outreach meetings. B) A Delta RMP update is on the agenda for the May 7 State Water Board meeting. The meeting starts at 9:30 and the Delta RMP update will be the last agenda item, but has no specific time slot at this time. Ken Landau, Dave Tamayo, Mike Wackman, and Linda Dorn have</li> </ol>

	confirmed to present different perspectives of the Delta RMP SC. Rainer Hoenicke will present the perspective of the Delta Science Program.
4.	<p><b>Overview of Delta RMP development pathway</b></p> <p>For discussion purposes, Brock Bernstein presented a flow chart illustrating his current understanding of the envisioned development pathway for the Delta RMP. SC generally agreed with the ideas presented in the diagram, but would have comments to incorporate, if it would be used as a product rather than as a discussion piece. At this point, it only served as a conversation piece for the meeting. A discussion ensued on the definition of “monitoring” in the context of permit changes. Ken Landau clarified that the definition of monitoring in this context includes not only open water receiving water monitoring, but also things like discharge/effluent monitoring, field-screening (for stormwater), or visual inspection. Dave Tamayo noted that a broader, more inclusive term i.e. that also includes compliance activities would be advantageous, to provide flexibility to permit writers.</p> <p> RMP pathway.pdf</p>
5.	<p><b>Action: Management questions</b></p> <p><u>Outcome:</u> Editorial changes were approved. In addition, it was decided to move the questions related to effectiveness tracking to the bottom of the table.</p> <p> final core management question</p>
6.	<p><b>Action: Guiding principles</b></p> <p>Delta RMP staff presented guiding principles for review and approval. SC members advised to edit such that the guiding principles link to the management questions, a strategic plan for the Delta RMP (see flow chart for Delta RMP pathway), and the Delta Plan.</p> <p><u>Outcome:</u> staff will edit the guiding principles based on comments and send out a revised version for approval</p>
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<p><b>Action: Initial Assessment Targets</b></p> <p>The discussion was framed to address two topics:</p> <ol style="list-style-type: none"> <li>1. Reconfirm the broad categories of constituents the SC had agree to investigate as potential initial assessment targets, and</li> <li>2. Provide feedback on a template for white papers on each of these categories, to be developed under the guidance of the TAC Chair</li> </ol> <p>1. <u>Initial assessment targets</u>: the March 27 meeting pointed to four potential initial assessment targets to further investigate: pathogens, methylmercury, nutrients, and pesticides. As an additional option, Regional Board staff proposed to consider regional characterization studies, which are needed for the reasonable potential analysis in discharge permitting. Tim Vendlinski asked whether it hadn't already been decided to focus the investigation on pesticides and toxicity. It was clarified that although there was some consensus at the previous meeting that pesticides are a logical starting point, several represented groups felt that they needed more information to make such decisions. It was further clarified that at this point, the term "pesticides" corresponds to its legal definition<sup>2</sup>. Dave Tamayo suggested narrowing down the topic to certain pesticides that should be discussed by one or several white papers. It was also clarified that pesticides and toxicity are to be separated as issues considered for investigation. Val Connor indicated that the USGS has just completed a study of the presence of current-use pesticides in the Delta and Suisun Bay.</p> <p><u>Outcome</u>: six issues are being investigated as initial assessment targets:</p> <ol style="list-style-type: none"> <li>1. Nutrients</li> <li>2. Pesticides (incl. herbicides, fungicides)</li> <li>3. Toxicity</li> <li>4. Methylmercury</li> <li>5. Ambient background characterization for priority pollutants</li> <li>6. Pathogens</li> </ol> <p>2. <u>Feedback on template for white papers</u>: Thomas Jabusch presented a template for consideration for the white papers/factsheets that are going to be developed for the potential initial assessment targets.</p> <p><u>Outcome</u>: The Steering Committee suggested reorganizing the template to match the Delta RMP's management questions and to summarize available information and data gaps relative to each. Using the new template, the scope of some topics may need to be modified; for example, the TAC would have to narrow down the topic "pesticides" to a list of groups (e.g., based on listings, use patterns, chemical behavior) that are of concern and that may need to be reviewed separately. Once</p>
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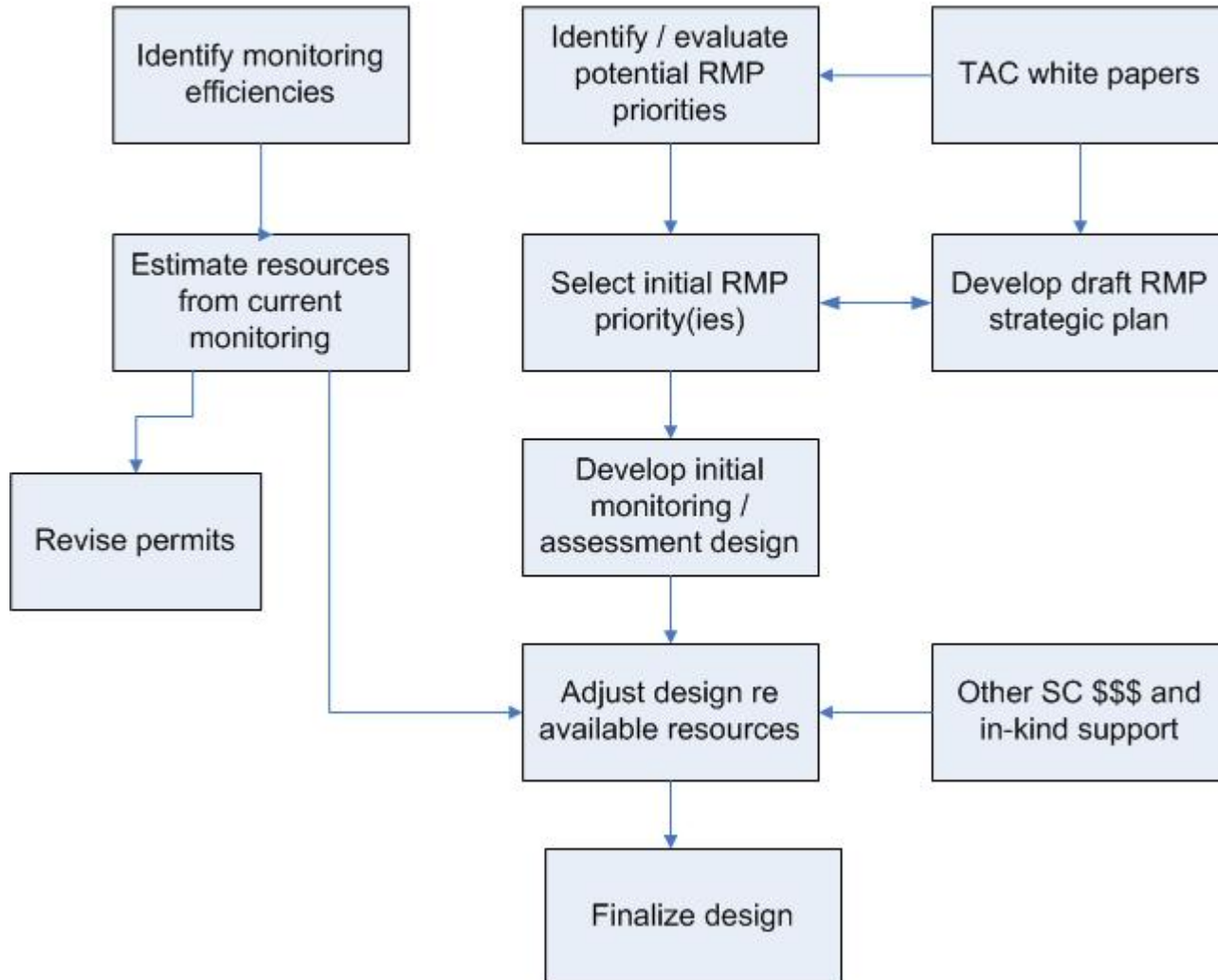
<sup>2</sup>i.e., "any substance or mixture of substances intended for preventing, destroying, repelling, attracting or mitigating any insects, rodents, nematodes, fungi, weeds or other forms of plant or animal life and/or bacteria and viruses (except bacteria or viruses on or in living man or other animals) which is determined to be a pest."

	completed, the reviews will be presented to the SC.
8.	<p><b>Selection of TAC chair</b></p> <p>Two candidates for TAC chair (Stephen McCord and Mike Johnson) had been nominated and their short bios/statement of qualification and statements of interests had been distributed in advance of the meeting for consideration by the Steering Committee. At the meeting, Joe Domagalski (USGS) also indicated his intent to be considered as a TAC chair candidate. The two TAC Chair candidates present (Stephen McCord and Joe Domagalski) were asked to leave the room for the duration of the TAC Chair selection discussion. Brock Bernstein suggested to the SC to consider the idea of having two co-chairs. Mike Wackman expressed strong concerns over the process, because Joe Domagalski's information had not been circulated in advance, whereas the two other candidates had been nominated and their information submitted by the April 17<sup>th</sup> due date. The Steering Committee came to an agreement to choose two co-chairs among the three candidates at the June 4<sup>th</sup> meeting.</p> <p><u>Outcome:</u> The Steering Committee will select two TAC co-chairs on June 4<sup>th</sup> among three candidates (Joe Domagalski, Stephen McCord, Mike Johnson)</p>
9.	<p><b>Next meeting</b></p> <p>The next meeting will be on June 4<sup>th</sup> at the Central Valley Regional Board (9:00 to 12:00).</p>
10.	<p><b>+/<math>\Delta</math><sup>3</sup> on today's meeting</b></p> <p>No formal plus/delta was done, but several suggestions were provided during or after the meeting:</p> <ul style="list-style-type: none"> <li>- Post all meeting materials on the website in advance</li> <li>- Update all materials on the Delta RMP website (e.g. management questions, mission statement) as they are being updated</li> </ul>

<sup>3</sup> A +/ $\Delta$  allows a team, group, or committee quickly to gather feedback from its participants on what it has been doing well and what it could do better. The name, intentionally more positive than Plus/Minus would be, uses delta, the Greek letter that symbolizes change in mathematics, to highlight the group's opportunities for improving how it does its work. The process can take as few as five minutes, i.e. going around the table asking, "What was good/went well in this meeting?" "What can we improve?"

<b>11.</b>	<b>Action items</b>  10.1. Staff to distribute management questions for final review (due: May 15). 10.2. Staff to edit draft guiding principles based on comments and redistribute for approval (due: May 15) 10.3. Staff to reorganize and edit draft template for white papers (due: May 15) 10.4. SC final comments to Meghan Sullivan on management questions, guiding principles, and white paper template (due: May 22)

## Delta RMP Development Pathway



## Delta RMP Core Management Questions

Type	Management Questions
Status and Trends	<p>Is there a problem or are there signs of a problem?</p> <ol style="list-style-type: none"> <li>Is water quality currently, or trending towards, adversely affecting beneficial uses of the Delta?</li> <li>Are contaminants (e.g., pesticides, nutrients) impairing beneficial uses in subregions of the Delta?</li> <li>Are trends similar or different across different subregions of the Delta?</li> </ol>
Sources, Pathways, Loadings, and Processes	<p>Which contaminant sources and processes are most important to understand and quantify?</p> <ol style="list-style-type: none"> <li>Which sources, pathways, loadings, and processes (e.g., transformations, bioaccumulation) contribute most to impacts?</li> <li>What are the relative contributions of each source (e.g., municipal wastewater, atmospheric deposition)?</li> <li>What are the relative contributions of internal sources (e.g., benthic flux) and sinks to the Delta contaminant budgets?</li> </ol>
Forecasting Water Quality Under Different Management Scenarios	<ol style="list-style-type: none"> <li>How do ambient water quality conditions respond to different management scenarios</li> <li>What contaminant loads can the Delta assimilate without impairment of beneficial uses?</li> <li>What is the likelihood that the Delta will be water quality-impaired in the future?</li> </ol>
Effectiveness Tracking	<ol style="list-style-type: none"> <li>Are water quality conditions improving as a result of management actions such that beneficial uses will be met?</li> <li>Are loadings changing as a result of management actions?</li> </ol>

## **DRAFT Delta RMP Guiding Principles**

### ***Mission***

The program’s mission is to inform decisions on how to protect, and where necessary, restore beneficial uses of water in the Delta, by producing objective and cost-effective scientific information critical to understanding regional water quality conditions and trends.

### ***Goals and Objectives***

The primary goal of the Delta RMP is to provide coordinated Deltawide monitoring, reporting, and assessment of contaminants, while pursuing the following objectives:

1. Improve the efficiency of water quality data collection and management in the Delta;
2. Generate products that inform and educate the public, agencies, and decision makers;
3. Raise awareness of Delta water quality conditions and how they impact beneficial uses;  
and
4. Foster independent science, objective peer review, and a transparent review process.

### Management Questions

Delta RMP participants have articulated core management questions that organize and guide RMP studies:

<u>Type</u>	<u>Management Questions</u>
<u>Status and Trends</u>	<p><u>Is there a problem or are there signs of a problem?</u></p> <p><u>a. Is water quality currently, or trending towards, adversely affecting beneficial uses of the Delta?</u></p> <p><u>b. Are contaminants (e.g. pesticides, nutrients) impairing beneficial uses in subregions of the Delta?</u></p> <p><u>c. Are trends similar or different across different subregions of the Delta?</u></p>
<u>Sources, Pathways, Loadings, and Processes</u>	<p><u>Which contaminant sources and processes are most important to understand and quantify?</u></p> <p><u>a. Which sources, pathways, loadings, and processes (e.g., transformations, bioaccumulation) contribute most to impacts?</u></p> <p><u>b. What are the relative contributions of each source (e.g., municipal wastewater, atmospheric deposition)?</u></p> <p><u>c. What are the relative contributions of internal sources (e.g. benthic flux) and sinks to the Delta contaminant budgets?</u></p>
<u>Forecasting Water Quality Under Different Management Scenarios</u>	<p><u>a. How do ambient water quality conditions respond to different management scenarios</u></p> <p><u>b. What contaminant loads can the Delta assimilate without</u></p>

	<u>impairment of beneficial uses?</u> <u>c. What is the likelihood that the Delta will be water quality-impaired in the future?</u>
<u>Effectiveness Tracking</u>	<u>a. Are water quality conditions improving as a result of management actions such that beneficial uses will be met?</u> <u>b. Are loadings changing as a result of management actions?</u>

### ***Methods of Operation***

The Delta RMP's Methods of Operation form the foundation of program activity.

- **Focus on the Delta:** The geographic scope of the Delta RMP encompasses the legal Delta (as defined by section 12220 of the Water Code), including water bodies that directly drain into the Delta, Yolo Bypass, and Suisun Bay. In addition, the base monitoring and special studies of the Delta RMP may extend upstream, if required to address specific management questions. Since Suisun Bay is outside the jurisdiction of the Central Valley Regional Water Board, sampling here will require coordination and collaboration with the San Francisco Bay RMP.
- **Focus on the highest priority water quality information needs:** A strategic planning process ensures that the Delta RMP focuses on the highest priority water quality information needs for beneficial use protection and restoration in the Delta.
- **Contributing to a holistic understanding of the Bay-Delta:** The Delta Science Plan will serve as a framework that contributes to a holistic understanding of the Bay-

Delta and, thus, as a conduit for tying Delta RMP monitoring and assessment activities to the Delta Plan adaptive management approach.

- Leveraging activities and resources:** the Delta RMP will leverage activities and resources by building on and partnering with existing programs, initiatives, and organizations to the extent possible. The Summary of Current Water Quality Monitoring Programs in the Delta ([http://www.waterboards.ca.gov/centralvalley/water\\_issues/delta\\_water\\_quality/comprehensive\\_monitoring\\_program/draftfinal\\_deltamon\\_25nov09.pdf](http://www.waterboards.ca.gov/centralvalley/water_issues/delta_water_quality/comprehensive_monitoring_program/draftfinal_deltamon_25nov09.pdf)) and the Central Valley Monitoring Directory ([centralvalleymonitoring.org](http://centralvalleymonitoring.org)) provide information that might be helpful in identifying potential partners.
- Clearly described and transparent processes and agreements** will guide the program governance and its operations. Following governance groundrules established by the Steering Committee, all stakeholders have the opportunity to participate in the RMP (see Figure 1: Organizational Chart for the Delta RMP). Documents describing committee roles and responsibilities, basic governance decisions (quorum, voting, participation), the overall development pathway flowchart (to be finalized), the strategic planning process (to be defined) and other governance groundrules and agreements are made available on the Delta RMP website (currently: [http://www.waterboards.ca.gov/centralvalley/water\\_issues/delta\\_water\\_quality/comprehensive\\_monitoring\\_program/index.shtml](http://www.waterboards.ca.gov/centralvalley/water_issues/delta_water_quality/comprehensive_monitoring_program/index.shtml))
- Adaptability and Flexibility:** Frequent committee and workgroup meetings and periodic program reviews maintain the Delta RMP's capacity to adapt in response to changing management priorities and advances in scientific understanding. Pilot and special studies constitute a mechanism for responding quickly to new information and/or concerns, assessing new technical approaches, investigating particular questions that have defined scientific, management, or regulatory endpoints, and evaluating new directions for the RMP as a whole.

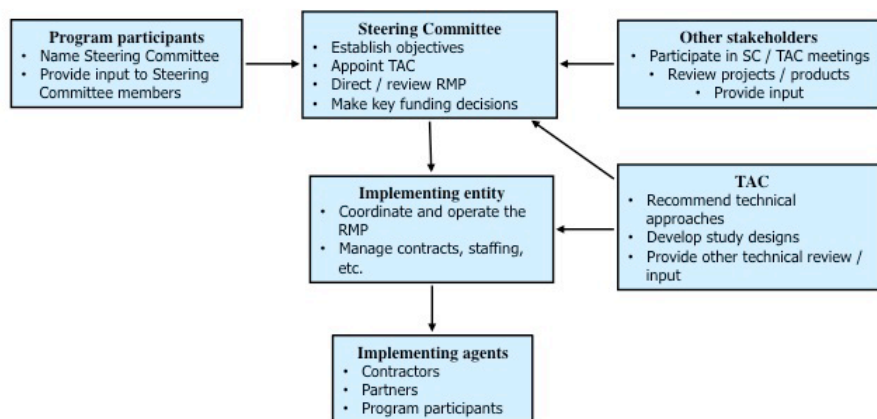
- **Collaborative culture:** Fostering a collaborative culture will enable participants to work together to address multiple competing and potentially conflicting interests (such as habitat restoration, flood protection, water supply, and human and wildlife consumption in fish) in an environment that encourages objectivity, consensus-building, and science-based decision-making.

### ***Cost and Permit Changes***

The intent is for the initial implementation of the RMP to be cost-neutral for permittees.

Therefore, cost neutrality is a key principle guiding permit changes that will allow the shifting of monitoring resources from existing individual permit compliance to regional monitoring. Cost-neutrality refers to the overall cost of compliance for individual permittees. Additional important cost considerations are:

- Aim for cost savings collectively versus all current Delta monitoring costs.
- Seek funding partnerships.
- Each stakeholder type should develop its own cost function.
- Account for major in-kind contributions to program costs insofar as they translate into direct programmatic cost savings.
- Divide funding obligations into fixed costs for core program and variable costs for special studies.



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Figure 1. Organizational Chart of the Delta RMP

## **RMP Priorities: Outline (Template)**

### **1. General description**

of issue/contaminant (group): what is it and why is important (discuss criteria questions and discussion), uses, what management actions are under way. Also discuss taxonomy, especially for pesticides; i.e. how they are being grouped for practical purposes in the review and what groups are considered priorities, and why, and therefore being discussed.

### **2. Review of current knowledge and information gaps –what do we know now?**

Brief synopsis of *readily available information* (based on existing reviews, key studies, and reports, not on raw existing data!) and gaps for each issue/contaminant (group), i.e. what do we think we know or don't know about each issue with regards to the management questions.

#### **a. Status & trends: is there a problem or are there signs of a problem?**

- i. Is water quality currently, or trending towards, adversely affecting beneficial uses of the Delta?
- ii. Is the issue/contaminant impairing beneficial uses in subregions of the Delta?\*
- iii. Are trends similar or different across different subregions of the Delta?

#### **b. Sources, pathways, loadings, and processes: what sources and processes are most important to understand and quantify?\***

- i. Which sources, pathways, loadings, and processes contribute most to impacts?
- ii. What are the relative contributions of each source?
- iii. What are the relative contributions of internal sources and sinks to the Delta contaminant budgets?

#### **c. Forecasting water quality under different management scenarios**

- i. How do ambient water quality conditions respond to different management scenarios
- ii. What contaminant loads can the Delta assimilate without impairment of beneficial uses?\*
- iii. What is the likelihood that the Delta will be water quality-impaired in the future?

#### **d. Effectiveness tracking**

- i. Are water quality conditions improving as a result of management actions such that beneficial uses will be met?
- ii. Are loadings changing as a result of management actions?\*

#### **e. Key information gaps**

#### **f. Environmental justice considerations**

### **3. Potential for monitoring: existing studies (is someone else doing it?) vs. studies the Delta RMP could conduct.**

### **4. Key references**

\*Not applicable to toxicity and general assessment (ambient background characterization for priority pollutants).

## Selecting Initial Assessment Targets *DRAFT ITINERARY*

- 1. TAC White Papers** – to be completed before July TAC meeting
  - To be developed by staff and TAC; prior to official formation, with experts who are likely to be members of the TAC, via phone calls and interviews
  - As much as possible, 1<sup>st</sup> cut by groups who are already working on topics
- 2. Follow-up work by TAC and staff** – before August SC meeting
  - Additional information needs?
  - Refine recommendations?
- 3. Presentation to SC** – August SC meeting
  - Present summary and TAC recommendations
  - Provisional recommendation; identify follow-up work for staff and TAC
- 4. Selecting initial RMP priority(ies)** – September SC meeting
  - Final decision

**Experts/groups to consult for each topic:**

1. Ambient background characterization for priority pollutants
  - CV Regional Water Board staff
  - POTWs
2. Methylmercury
  - CV Regional Water Board staff – Chris Foe, Michelle Wood, Janis Cooke
  - Delta MeHg TMDL NPS workgroup/Delta Tributaries Mercury Council – Stephen McCord
3. Nutrients
  - CV Regional Water Board - Chris Foe
  - IEP - Erwin van Nieuwenhuyse, Anke Mueller-Solger, Karen Gehrts
  - USGS – Joe Domagalski
  - G. Fred Lee?
  - SJR Low DO TMDL Technical Committee – Will Stringfellow?
  - RTC – Alex Parker
4. Pathogens
  - CV Regional Water Board – Jay Simi, Sue McConnell
  - CV Drinking Water Policy Workgroup – Sujoy Roy (TetraTech)?
5. Pesticides
  - San Joaquin County RCD/URS – Mike Johnson
  - USFWS – Cathy Johnson
  - USGS CA Water Science Center – Jim Orlando
  - Water Contractors – Stephanie Fong
  - DPR – Kean S Goh, David Duncan
6. Toxicity
  - IEP POD Contaminants Workgroup –Stephanie Fong
  - USFWS – Cathy Johnson
  - CDFW – Stella McMillin
  - Stephen Clarke (Pacific Ecorisk)
  - Granite Canyon MPL – Brian Anderson

Current ASC contract	<b>Develop Regional Monitoring and Assessment Framework</b>			
	<i>Deliverables/Milestones</i>	<i>Decisions</i>	<i>Summary</i>	<i>Timeline</i>
	Revised draft framework document representing an organizational structure	Guiding management questions	Approved by SC on February 27	March 2013 - complete
		Monitoring objectives (Year 1) Indicators Monitoring Design => <i>Monitoring locations</i>	⇒ Monitoring objectives (questions): need to have enough specificity to translate priority management question(s) (e.g., presence / scale of impact, sources, effectiveness of management actions) into the monitoring design; to be developed by TAC, pending selection of TAC chair (expected June 4), TAC formation (planned by July), and agreement on immediate monitoring/assessment targets (based on the current status of discussions, expected by August) ⇒ Indicators: specific indicators to be targeted by monitoring/special studies (i.e., specific pesticides, toxicity, etc.) ⇒ Monitoring design: identify the most appropriate monitoring design/special study (or studies) is/are most appropriate (e.g., status and trends, process-based, source tracking) ⇒ Monitoring locations: sampling draw; evaluate feasibility of sampling, and opportunities for logistic coordination (e.g. piggybacking onto IEP or SWAMP sampling etc.)	October 2013 November 2013 December 2013 December 2013
		Potential special studies	see Monitoring design above	October 2013
		Anticipated organizational budget	Costing will go hand-in-hand with developing the monitoring plan	December 2013
	Final framework document		Approved by SC and reviewed by RB management team	March 2014
	<b>MoA to implement Regional Monitoring and Assessment Framework</b>			
	<i>Deliverables/Milestones</i>	<i>Decisions</i>	<i>Summary</i>	<i>Timeline</i>
		Participants	Participants of Year 1 confirmed	April 2014

		Coordinating entity	Organizational lead for Year 1 confirmed	April 2014
	Final MoAs		MoAs with confirmed partners for year 1; if there's mutual consensus, could draft MoAs for long-term implementation	September 2014
	<b>Implement the Delta RMP and Regional Monitoring &amp; Assessment Framework</b>			
	<i>Deliverables/Milestones</i>	<i>Decisions</i>	<i>Summary</i>	<i>Timeline</i>
		Funding sources/allocation	ASC contract includes provisional funding for implementation tasks pending approval by Regional Board and SC; are additional/other sources of funding available?	October 2014
			Depending on decisions by SC and Regional Board, ASC or someone else will implement year 1	November 2014 onwards
	<b>Pulse of the Delta</b>			
	<i>Deliverables/Milestones</i>	<i>Decisions</i>	<i>Summary</i>	<i>Timeline</i>
			ASC contract includes provisional \$30K for producing a Pulse of the Delta. Additional funding/interest will be required for producing the document	2015/16
<i>Long-term implementation (lead TBD)</i>	There are a number of key decisions to be made for the long-term program. They would need to be made by March 2015, if the intent is to use ASC's help for the process under the existing contract.			
	<i>Deliverables/Milestones</i>	<i>Decisions</i>	<i>Summary</i>	<i>Timeline</i>
		Reporting Independent Science Review Long-term funding arrangements Implementation (who?)	⇒ Reporting: this could be a web-based format (Estuary Portal) or a print format (Pulse of the Delta), and preferably a combination of both. ⇒ Independent Science Review: who's reviewing what when? This will probably be a combination of 30K ft level review by the ISB or a similar body, a Technical Advisory/Review Committee,	By March 2015

		Overall coordination	<p>technical workgroups, and Science/Technical Advisory Groups/Boards convened for specific tasks, projects, or strategic purposes. These decisions would go alongside with decisions on the program planning cycle. The following table describes a proposed planning cycle.</p> <ul style="list-style-type: none"> <li>⇒ Long-term funding arrangements: probably need to be formalized, along with the program's funding mechanism(s). We have previously prepared a strawman laying out options.</li> <li>⇒ Implementation: who will coordinate the monitoring? Manage the data? Analyze and assess the data? Report and disseminate the results?</li> <li>⇒ Overall coordination? Who will be the lead agency? The lead agency will also be responsible for integration/coordination of the Delta RMP with other efforts</li> </ul>	
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## B. Proposed program planning cycle.<sup>1</sup>

Document	Content / process step	Released by
Draft Program Plan ("Framework")	Describes interim organizational structure, projects, and anticipated organizational budget for the first year of long-term implementation	March 2014
Final Program Plan	Approved by SC	April 2014
	Reviewed by Regional Board Management Team	May 2014
	Presented to Regional Board	June 2014
Comprehensive 5-year Plan	Development/re-evaluation of core monitoring questions, priority topics, budget, activities (incl. monitoring and special studies)	5-year cycle (starting in December 2014)
Annual Program Plan	Development of annual monitoring questions, budget, activities (incl. monitoring and special studies)	Annually (starting in December 2015)
5-year Review	In-depth review of objectives and management questions, sampling design, overall adequacy and allocation of resources, QA, data management, data analysis, information dissemination, use of information by target audiences	5-year cycle (starting in 2014 with an in-depth review of the initial Program Plan)
Ongoing technical review	Review of annual plan and activities	5-year cycle (starting in 2014 with an in-depth review of the initial Program Plan)

<sup>1</sup> A structure for decision-making and process coordination will be developed in parallel with the development of processes and decisions.